



Thursday, January 16, 2020

Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: NPDES JANUARY 2020
SDG ID: GCE99347
Sample ID#s: CE99347

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

January 16, 2020

SDG I.D.: GCE99347

Project ID: NPDES JANUARY 2020

Client Id	Lab Id	Matrix
EFFLUENT	CE99347	WASTE WATER



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Analysis Report

January 16, 2020

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information

Matrix: WASTE WATER
Location Code: BARNHARD
Rush Request: Standard
P.O.#: G11301

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

01/08/20
01/08/20

Time

7:00
16:00

Laboratory Data

SDG ID: GCE99347
Phoenix ID: CE99347

Project ID: NPDES JANUARY 2020
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Copper	0.169	0.003	mg/L	1	01/11/20	CPP	E200.7
B.O.D./5 day	< 4.0	4.0	mg/L	2	01/09/20 14:15	RVM	SM 5210B-11
B.O.D./5 day End Incubation					01/14/20 13:21	RVM	SM 5210B-11
C.O.D.	195	10	mg/L	1	01/09/20	NLM/MSF	SM 5220C-11
Ammonia as Nitrogen	0.65	0.25	mg/L	5	01/15/20	KDB	E350.1
Nitrite-N	0.955	0.050	mg/L	5	01/08/20 19:54	TB	E353.2
Nitrate-N	0.56	0.10	mg/L	5	01/08/20 19:54	TB	E353.2
Phenolics	< 0.015	0.015	mg/L	1	01/13/20	MSF	E420.4
Nitrogen Tot Kjeldahl	8.30	0.50	mg/L	5	01/15/20	KDB	E351.1
Total Nitrogen	9.82	0.10	mg/L	1	01/15/20	KDB	SM4500NH3/E300.0-11
Phosphorus, as P	1.06	0.050	mg/L	5	01/10/20	MI	SM4500PE-11
Total Suspended Solids	8.8	6.3	mg/L	1.3	01/09/20	DJ/ARG	SM 2540D-11
Total Metals Digestion	Completed				01/10/20	AG	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 16, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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QA/QC Report

January 16, 2020

QA/QC Data

SDG I.D.: GCE99347

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 513709 (mg/L), QC Sample No: CE99279 (CE99347)													
<u>ICP Metals - Aqueous</u>													
Copper	BRL	0.0025	0.187	0.166	11.9	97.1	97.5	0.4	86.9			75 - 125	20



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QA/QC Report

January 16, 2020


QA/QC Data

SDG I.D.: GCE99347

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 513436 (mg/L), QC Sample No: CE97631 (CE99347)													
Total Suspended Solids	BRL	2.5	18	20	NC	100						85 - 115	
QA/QC Batch 513670 (mg/L), QC Sample No: CE99098 (CE99347)													
Phosphorus, as P	BRL	0.01	0.577	0.566	1.90	99.2			100			85 - 115	20
Comment: Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 513466 (mg/L), QC Sample No: CE99131 (CE99347)													
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	100			91.3			70 - 130	20
B.O.D./5 day GGA BOD						110						84 - 115	20
QA/QC Batch 513462 (mg/L), QC Sample No: CE99347 (CE99347)													
C.O.D.	BRL	10	195	193	1.00	102			91.3			85 - 115	20
Comment: Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 513327 (mg/L), QC Sample No: CE99230 (CE99347)													
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	99.6			100			90 - 110	20
Nitrite-N	BRL	0.01	<0.010	<0.01	NC	93.6			96.8			90 - 110	20
QA/QC Batch 514121 (mg/L), QC Sample No: CE99186 (CE99347)													
Ammonia as Nitrogen	BRL	0.05	1.22	1.22	0	102			100			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	3.01	2.97	1.30	100			101			85 - 115	20
Comment: TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													
QA/QC Batch 513587 (mg/L), QC Sample No: CF00765 (CE99347)													
Phenolics	BRL	0.015	<0.015	<0.015	NC	94.3			96.5			90 - 110	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
January 16, 2020

Thursday, January 16, 2020

Criteria: None

State: MA

Sample Criteria Exceedances Report

GCE99347 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

